



# AGRICULTURAL WATER SUPPLY

## DESCRIPTION

**OBJECTIVE: DEVELOP A PLAN TO PROTECT AND CONSERVE THE GROUNDWATER RESOURCES OF THE BAYOU METO BASIN**

**IMPROVEMENT PROJECT AREA (IPA) = 433,166 ACRES**

- 267,982 ACRES OF IRRIGATED CROPLAND
- 22,079 ACRES OF COMMERCIAL FISHPONDS
- 33,700 ACRES IN BAYOU METO WILDLIFE MANAGEMENT AREA

### **PROJECT FEATURES**

- **SAFE GROUNDWATER YIELD: 148,565 AC-FT ANNUALLY (23% OF TOTAL NEED)**
- **ON-FARM CONSERVATION & IMPROVEMENTS (WATER MANAGEMENT PLANS RESULT IN IMPROVED IRRIGATION EFFICIENCIES) (12% OF TOTAL NEED)**
- **TAILWATER RECOVERY SYSTEMS (7% OF TOTAL NEED)**
- **IMPORT WATER USING ARKANSAS RIVER DIVERSION (43% OF TOTAL NEED)**
- **FOUR (4) PUMP STATIONS**
- **NEW CANALS: 107 MILES**
- **EXISTING DITCHES: 132 MILES**
- **PIPELINES: 465 MILES**
- **LOW-LEVEL WEIRS: 56 STRUCTURES**
- **SCADA CONTROL SYSTEM WITH MEASUREMENT AND MONITORING CAPABILITY**

## BENEFITS

- **PROTECT THE SPARTA AQUIFER**
  - **PROTECT THE REGION'S DRINKING WATER SUPPLY**
  - **OPPORTUNITIES FOR FUTURE INDUSTRIAL DEVELOPMENT**
  - **AVOID REGULATIONS THAT COULD HURT FUTURE DEVELOPMENT**
  - **ELIMINATE THREAT OF SALT-WATER INTRUSION**
- **PROTECT THE ALLUVIAL AQUIFER**
  - **ELIMINATE THREAT OF SALT-WATER INTRUSION**
- **SUSTAIN IRRIGATED AGRICULTURE CRITICAL TO THE NATION'S FOOD INDEPENDENCE**
- **ENSURE ECONOMIC VIABILITY OF THE REGION**
  - **MUNICIPALITIES (SCHOOLS, CHURCHES, BUSINESSES)**
  - **FARMS (AGRICULTURAL AND HUNTING OPERATIONS)**
    - **TOTAL NET REVENUE INCREASES TO \$31.7 MILLION BY 2015**
- **DECREASE ENERGY COSTS TO IRRIGATE (\$12.6 MILLION ANNUALLY IN 2015)**
- **PROVIDE FOR ENVIRONMENTAL ENHANCEMENT FOR WATERFOWL**
- **PROVIDE FOR ENVIRONMENTAL ENHANCEMENT OPPORTUNITIES ON NEW ON-FARM RESERVOIR SITES**
- **ENHANCE AQUATIC HABITAT IN STREAMS AND DITCHES**
- **INCREASE IRRIGATION EFFICIENCY**
- **DECREASED ENERGY CONSUMPTION IN REGION**
- **REDUCED EMISSIONS (AIR QUALITY)**